

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A transgenic non-human mammal whose genome comprises a nucleic acid construct, wherein said construct comprises a reporter nucleic acid encoding a reporter operably linked to a promoter comprising an androgen response element (ARE), and said construct further comprises an androgen receptor nucleic acid encoding an androgen receptor, and wherein expression of said reporter nucleic acid is regulated by expression of said androgen receptor nucleic acid, and wherein said androgen receptor nucleic acid is expressed in said mammal.

Claim 2 (original): The transgenic non-human mammal of claim 1 wherein said reporter is luciferase.

Claim 3 (original): The transgenic non-human mammal of claim 1 wherein said androgen response element is 2XDR-1.

Claim 4 (currently amended): A cell isolated from the transgenic mouse non-human mammal of claim 1, wherein the genome of said cell comprises said nucleic acid construct.

Claim 5 (original): The cell of claim 4 wherein said reporter is luciferase.

Claim 6 (original): The cell of claim 4 wherein said androgen response element is 2XDR-1.

Claim 7 (original): A mouse cell line comprising the cell of claim 4.

Claim 8 (original): An isolated nucleic acid construct that comprises a reporter nucleic acid encoding a reporter operably linked to a promoter comprising an androgen response element (ARE), and said construct further comprises an androgen receptor nucleic acid encoding an androgen receptor, and wherein expression of said reporter nucleic acid is regulated by expression of said androgen receptor nucleic acid.

Claim 9 (original): The construct of claim 8 wherein said reporter is luciferase.

Claim 10 (original): The construct of claim 8 wherein said androgen response element is 2XDR-1.

Claim 11 (currently amended): A method for obtaining a target transgenic mouse whose genome comprises a nucleic acid construct, wherein said construct comprises a reporter nucleic acid encoding a reporter operably linked to a promoter comprising an androgen response element (ARE), and said construct further comprises an androgen receptor nucleic acid encoding an androgen receptor, and wherein expression of said reporter nucleic acid is regulated by expression of said androgen receptor nucleic acid, and wherein said androgen receptor nucleic acid is expressed in said mammal.

wherein said mouse can be bred to produce progeny mice whose genomes comprise said nucleic acid construct, said method comprising the steps of:

- (a) isolating a fertilized egg from a first female mouse;
- (b) transferring a transgene comprising said nucleic acid construct into the fertilized egg;
- (c) transferring the fertilized egg of step (b) to the uterus of a pseudopregnant second female mouse; and
- (d) maintaining said second female mouse such that:
 - (i) said second female mouse becomes pregnant with an embryo derived from said fertilized egg of step (c);
 - (ii) said embryo develops into said target mouse; and
 - (iii) said target mouse is viably born from said second female mouse;

wherein the genome of said target mouse comprises said nucleic acid construct and wherein said mouse can be bred to produce progeny mice whose genomes comprise said nucleic acid construct.

Claim 12 (currently amended) A method for producing a transgenic mouse cell line that expresses a reporter nucleic acid, said method comprising:

- (a) isolating cells from the transgenic ~~mouse~~ non-human mammal of claim 1 that is a transgenic mouse; and
- (b) placing the isolated cells under conditions to maintain growth and viability of the isolated cells such that said transgenic mouse cell line expresses said reporter nucleic acid.

Claim 13 (original): A method of screening for a modulator of the androgen receptor, comprising administering a test substance to the transgenic non-human mammal of claim 1 and assaying the effect of said test substance on the activity of the androgen receptor.

Claim 14 (currently amended): A transgenic non-human mammal whose genome comprises a nucleic acid construct, wherein said construct comprises a reporter nucleic acid encoding a reporter operably linked to a promoter comprising an androgen response element (ARE), and said construct further comprises an androgen receptor nucleic acid encoding an androgen receptor, and wherein said non-human mammal expresses said reporter nucleic acid in organs when said androgen receptor nucleic acid is expressed, and wherein said androgen receptor nucleic acid is expressed in said mammal.

Claim 15 (new): The transgenic non-human mammal of claim 1 wherein said mammal is a mouse.

Claim 16 (new): The cell of claim 4 wherein said mammal is a mouse.

Claim 17 (new): The transgenic non-human mammal of claim 14 wherein said mammal is a mouse.

Claim 18 (new): The transgenic non-human mammal of claim 1 wherein said nucleic acid construct comprises SEQ ID NO:1.

Claim 19 (new): The method of claim 11 wherein said nucleic acid construct comprises SEQ ID NO:1.

Claim 20 (new): The transgenic non-human mammal of claim 14 wherein said nucleic acid construct comprises SEQ ID NO:1.